



**OKIOFFICE 87**

**MULTIFUNCTION PRINTER**

## Warranty and Regulatory Information



Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. Oki Data assumes no responsibility for the results of errors beyond its control. Oki Data also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by Oki Data.

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**<http://www.okidata.com>**

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Touch-Tone is a registered trademark of American Telephone and Telegraph.

## **Emergency First Aid Information:**

See page 14 of this booklet.

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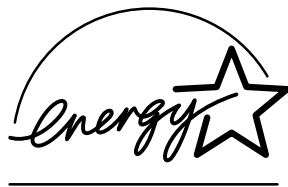
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## Year 2000 Compliance

The OKIOFFICE 87 is Year 2000 Compliant. It contains information technology that accurately processes date and time data between the years 1999 and 2000, and carries no issue for the September 9, 1999 (9999) programming concern. These products, when used in combination with products purchased from other manufacturers, whose products properly exchange data and time information, will accurately process the date and time.

ENERGY STAR®

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As an ENERGY STAR Partner, Oki Data has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

# Limited Warranty: U.S. & Canada

Oki Data Americas, Inc. (Oki Data) warrants this OKIOFFICE 87 to be free from defect in material and workmanship and will remedy any such defect according to the terms of this *Limited Warranty*.

Oki Data will repair (or at its option, replace) at no charge, any defective component(s) of the OKIOFFICE 87 for one (1) year from the date of purchase except for the printhead (LED imaging array), which is warranted for a period of five (5) years from date of purchase. This *Limited Warranty* extends to the original purchaser only. This *Limited Warranty* does not extend to consumable items.

To make request or claim for service under this *Limited Warranty* the original purchaser has the option to implement the overnight exchange procedure (U.S. and

Canada only; see Overnight Exchange) or return the OKIOFFICE product, shipping prepaid, in the original shipping container or equivalent, to Oki Data or an authorized Oki service center and assume the risk of loss or damage in transit. A written receipt for the product, showing the date and location of purchase, and both the model and serial numbers of this printer must accompany any request or claim for work or exchange to be performed under this *Limited Warranty*.

This *Limited Warranty* shall not apply if the product has been damaged due to abuse, misuse, misapplication, accident, or as a result of service or modification by any other than an authorized Oki service center.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE ON THE FACE HEREOF AND DESCRIBED ABOVE. NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND BEYOND THE RESPECTIVE WARRANTY PERIOD DESCRIBED ABOVE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

OKI DATA SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSS ARISING FROM THE USE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

Additional information on obtaining service under this *Limited Warranty* is available by contacting the Oki dealer from whom the product was purchased, by contacting Oki Data directly at 1-800-OKI-DATA (1-800-654-3282; U.S. and Canada, English only) or 1-856-222-7496 (Spanish only), or by contacting one of the service depots listed on page 11.

This *Limited Warranty* applies to this OKIOFFICE 87. However, the procedure for obtaining service may vary outside the continental United States. Contact your Oki dealer for such warranty service information.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# Overnight Exchange: U.S. & Canada

**Note:** Available in the United States and Canada.

If you choose to use our Overnight Exchange service, call 1-800-OKI-DATA (1-800-654-3282): our trained personnel will try to solve your problem over the phone. If they determine that your OKIOFFICE 87 hardware is defective, an exchange unit will be shipped to you via air express. Have your credit card available, as our representative will be asking for this information. You will receive the exchange unit the next business day—or no later than the second business day.

Return the original product to Oki Data by using the same packaging materials you received with the exchange OKIOFFICE 87. You must pack the unit according to the instructions on the package. The OKIOFFICE 87 to be returned must be made available for pickup by Oki Data's representative within 2 business days of your receipt of the exchange unit: failure to do so may result

in your being charged the full price of the exchange unit. Before you ship the OKIOFFICE 87, remove the image drum and toner cartridge to prevent damage to the OKIOFFICE 87 during shipment: failure to do so may result in a fee for cleaning/repairs, which will be charged to your account.

When Overnight Exchange is used, the returned machine becomes the property of Oki Data. Exchange units may be new or repaired/reconditioned, at the option of Oki Data: the exchange unit becomes the property of the customer when the returned machine has been picked up by Oki Data's designated carrier. The exchange OKIOFFICE 87 will be warranted for thirty (30) days or the remaining warranty period of the originally purchased OKIOFFICE 87, whichever is longer.

Overnight Exchange of the OKIOFFICE 87 for a print-head failure is limited to one year from date of purchase. For the remaining printhead warranty period, replacement will be at an authorized service center or authorized third party service organization. Call 1-800-OKI-DATA (1-800-654-3282) for authorized service locations using our depot repair program.

### How to activate your OKIOFFICE 87 Overnight Exchange Warranty

Follow these simple steps to take advantage of your OKIOFFICE 87 Overnight Exchange Warranty:

- 1 **Call us.** If you are having problems with your OKIOFFICE 87, first contact our support staff at **800-654-3282**. (See your User's Handbook or check our web site, [www.OKIDATA.com](http://www.OKIDATA.com), for other forms of support.) Our trained personnel will try to solve your problem over the phone.
- 2 If they determine that your OKIOFFICE 87 is defective, they will ask you for this **information**:
  - The **address** to send the replacement unit to: name, company, street address (not P.O. box), state, ZIP code, and phone number.

- **Major credit card** number and information, to secure the return and condition of the returned unit. (U.S.: Visa, MasterCard, American Express; Canada: Visa, American Express; this program is not available outside the U.S. & Canada.)

**Note:** This information is kept confidential, and will only be used if the returned unit is not received, if no receipt is supplied confirming that the Oki Data carrier has picked up the package, or if the unit has been damaged due to improper repackaging. You will receive a phone call or letter within two to four weeks of the exchange date before any charge is initiated.

**Note:** If you cannot supply a credit card number, you may still have your unit serviced by an authorized Oki Data service center or service depot under the terms of the warranty.

- 3 **Fax or mail** us the sales **receipt** for your OKIOFFICE 87, showing date and location of purchase, and model and serial number of the unit.



- 4 We will ship a **replacement OKIOFFICE 87** up to midnight ET and you should receive it the next business day—or Saturday if requested on Friday orders—and no later than two business days. The replacement will be a repaired/reconditioned “as new” machine and will require **replacement of consumables**—image drum and toner cartridge—from the original unit.
- 5 **Return the original unit**—reuse the packing material from the exchange unit. Follow the enclosed instructions to schedule the return shipment—there is no additional cost.

If you have any questions about this process and the complete warranty coverage and responsibilities please refer to page 5. If you need more help, contact our support professionals at 800-654-3282.

# Limited Warranty: Latin America

Oki Data warrants this multifunction printer (hereinafter Product) to be free in defect in material and workmanship and will remedy any such defect according to the terms of this *Limited Warranty*. This *Limited Warranty* does not extend to consumable items, including but not limited to toner cartridges, fuses, etc.

Oki Data will repair (or at its option replace) at no charge, any defective component(s) of the Product for one (1) year from the date of purchase except for the printhead (LED imaging array), which is warranted for a period of five (5) years from date of purchase. This *Limited Warranty* extends to the original purchaser only.

To make a request or claim for service under this *Limited Warranty* the original purchaser must return the Oki Data Product to Oki Data or an authorized Oki Data service center within the country purchased. The purchaser returning the Product for repair must pay for

all transportation charges to the repair center. A written receipt for the Product, showing the date of purchase, dealer's name, and both the model and serial numbers of the Oki Data Product must accompany any request or claim for work to be performed under this *Limited Warranty*.

This shall not apply if the Product has been damaged due to abuse, misuse, misapplication, accident, or as a result of service or modification by any other than an authorized Oki Data service center.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE ON THE FACE HEREOF AND DESCRIBED ABOVE. NO WARRANTIES EXPRESS OR APPLIED, INCLUDING, BUT NOT LIMITED TO, ANY PARTICULAR PURPOSE, SHALL EXTEND BEYOND THE RESPECTIVE WARRANTY PERIODS NOTED ABOVE.

# Oki Data Service Centers

For the most up-to-date listing of Oki Data Service Centers:

- Consult our web site at **www.okidata.com**
- In the U.S. and Canada, call 1-800-OKI-DATA (1-800-654-3282)
- In Latin America, contact the Latin America Service Coordinator at Oki Data's Corporate Headquarters at 856-222-7496 (Spanish only)

## **United States**

Oki Data Americas, Inc.  
2020 Bishops Gate Blvd.  
Mt. Laurel, NJ 08054  
Tel: 1-800-654-3282      Fax: 1-856-222-5247

## **Canada**

Oki Data Americas, Inc.  
2735 Matheson Blvd. East. Unit 1  
Mississauga, Ontario, Canada, L4W 4M8  
Tel: 800-654-3282      Fax: 905-238-4427

## **Mexico**

Oki Data de Mexico, S.A. de C.V.  
Mariano Escobedo No. 748-8 Piso  
Col Anzures, E. P 11590  
Mexico. DF  
Tel: 525-263-8780      Fax: 525-263-8785

## **Brazil**

Oki Data do Brasil, Ltda.  
Rua Alexandre Dumas, 22220-8 andar  
Chácara Sto Antonio  
São Paulo 04717-004, Brasil  
Tel: 5511-3444-3500      Fax: 5511-3444-3501

# Specifications

For additional specifications, see the on-line User's Guide.

## Electrical

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### Voltage

120 volts +6%/-15% (102-127V), 50/60 Hz,  $\pm 2\%$   
230 volts, +15%/-14% (198-264V), 50/60 Hz,  $\pm 2\%$

### Maximum Power

157W

## Environmental

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### Temperature

**Operating:** 50 to 90°F (10 to 32°C)

**Power Off:** 32 to 110°F (0 to 43°C)

**Storage:** 14 to 110°F (-10 to +43°C)

### Relative Humidity

**Operating:** 20 to 80% RH

**Power Off:** 10 to 90% RH

**Storage:** 10 to 90% RH

# Safety Information

## Installation Hints

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- Install your OKIOFFICE 87 MFP in a dust-free location away from direct sunlight.
- Do not plug your MFP into a power source shared by equipment which produces electrical noise (i.e., air conditioners, etc.).
- Leave electronic adjustments to authorized service personnel.
- The LINE terminal connects your fax machine to a standard telephone line. To avoid damage to your telephone system or to the MFP, do not plug your fax machine into anything other than a standard RJ-11C jack.
- Your MFP is intended to be grounded electrically and is equipped with a three-wire grounded power cord. For your safety, do not attempt to defeat your power cord's grounding plug.
- The power outlet should be located near the equipment and should be easily accessible.

- The TEL port on the back of the unit is only suitable for 2-wire devices. Not all standard telephones will respond to incoming ringing when connected to an extension socket.
- This equipment may not necessarily provide for the effective hand-over of a call from a telephone connected to the same line.

## Operation and Maintenance

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- Use a dry cloth to clean the control panel and the main body of the unit.
- *Aside from replacing the toner and image drum cartridge, do not disassemble or attempt to service this unit yourself. Refer to a qualified technician for service.*
- Disconnect the power cord before trying to remove any objects that may have fallen into the machine.
- When relocating your MFP, always disconnect the telephone line before disconnecting the power cord, then reconnect the power cord first.

- This unit is not intended to be used in parallel with any other telephone devices.
- If anything happens that indicates that the MFP is not working properly or has been damaged, unplug it immediately and follow the instructions in the “Service and Support” section of your Setup Guide for having your MFP serviced. These are some of the things to look for:
  - The power cord or plug is frayed or damaged.
  - Liquid has been spilled into the printer, or it has been exposed to water.
  - The MFP has been dropped, or the cabinet is damaged.
  - The MFP does not function properly when you’re following the operating instructions.
- Do not expose these components to light for more than five minutes. Never expose the green drum (inside the image drum unit) to direct sunlight.
- Always hold the image drum unit by the ends—never by the middle. Never touch the surface of the green drum inside the image drum unit.
- Exercise care when removing the toner cartridge. Do not let it touch your clothing or porous materials. The toner powder causes permanent stains.
- Small amounts of toner spilled on skin or clothing can be readily removed with soap and cold water. Using heated water will make removing the stain much more difficult.

## **Toner Cartridge & Image Drum Handling**

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- Leave unused toner cartridges and image drum units in their packages until needed. When replacing a toner cartridge or image unit, re-use the packaging to dispose of the old toner cartridge or image drum unit. Be sure to dispose of it in an environmentally sound manner.

## **Emergency First Aid**

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- *If toner is swallowed:* Dilute by giving two glasses of water and induce vomiting by administering Syrup of Ipecac (follow manufacturer’s instructions). Seek medical attention. Never attempt to induce vomiting or give anything by mouth to a person who is unconscious.
- *If toner is inhaled:* Take person to an open area for fresh air. Seek medical attention.
- *If toner gets in the eyes:* Flush eyes with large quantities of cool water for 15 minutes, keeping eyelids open with fingers. Seek medical attention.
- See the *Material Safety Data Sheet* in the back of this booklet for more information.

# Regulatory Information

## **Federal Communications Commission (FCC) Requirements for End Users**

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This device has been granted a registration number by the Federal Communications Commission, under Part 68 rules and regulations for direct connection to the telephone lines. In order to comply with these FCC rules, the following instructions must be carefully read and applicable portions followed completely.

- 1 This equipment complies with Part 68 of FCC rules. On the back of the equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company.
- 2 The following USOC jacks may be used with this equipment: RJ11C.
- 3 The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an emergency call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's, contact the telephone company to determine the maximum REN for your calling area.
- 4 If the equipment causes harm to the telephone network, the telephone company will notify you in advance. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

5 The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications to maintain uninterrupted service.

6 If trouble is experienced with this equipment, please contact the following for repair and/or warranty information:

Oki Data Americas, Inc.  
2020 Bishops Gate Blvd  
Mount Laurel, N.J. 08054

Telephone: (856) 235-2600 *or*  
(800)-OKI-DATA (800-654-3282)

If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

7 This equipment contains no user serviceable parts. Please contact Oki Data for service.

8 This equipment cannot be used on public coin service provided by the telephone company. Connection to Party Line Service is subject to state

tariffs. Contact your state Public Utility Commission, Public Service Commission, or Corporate Commission for information.

9 This equipment is hearing-aid compatible.

## **FCC Telephone Consumer Protection Act**

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The Federal Communications Commission Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual.

To comply with this law, you must enter the following information in your fax unit:

- Date and time: see the Setup Guide for instructions on doing this.
- Name and telephone number which identify the source of your fax transmission: see the Setup Guide for instructions on doing this.



## FCC Radio Frequency Interference Statements

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### 120-Volt Models

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Plug the unit into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio television technician for help.

A properly shielded interface cable must be used in order to ensure compliance of this equipment with FCC regulations.

Changes or modifications not expressly approved by Oki Data may void your authority to operate this device.

### 230/240-Volt Models

**WARNING:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

It is the responsibility of the user to obtain the required shielded cable in order to ensure compliance of this equipment with FCC regulations.

Changes or modifications not expressly approved by Oki Data may void your authority to operate this device.

## Industry Canada (IC) Requirements for End Users

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

- Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination of a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

## **IC Radio Interference Statements**

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### **120-Volt Models**

This OKI apparatus complies with Class B limits for radio interference as specified in the Industry Canada Radio Interference Regulations.

### **230/240-Volt Models**

This OKI apparatus complies with the Class A limits for radio interference as specified in the Industry Canada Radio Interference Regulations.

## **European Union Council of the European Communities Statements for 230/240-Volt Models**

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### **Electromagnetic Conformance Statement**

This product complies with the requirements of the Council Directive 89/336/EEC on the approximation of the laws of the member states relating to electromagnetic compatibility.

### **Safety Conformance Statement**

This product is in conformity with Directive 73/23/EEC on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

# Material Safety Data Sheet

**OKIOFFICE 87 Toner (Type 6),  
P/N 52111701, MSDS #58331801**

For more information, contact Oki Data at:

2000 Bishops Gate Boulevard  
Mount Laurel, NJ 08054-4620

**Emergency Information:**

call 1-800-OKI-DATA (1-800-654-3282)

Current as of 5/12/01

**Emergency First Aid Procedures**

**Toner swallowed (ingested)**

Dilute by giving two glasses of water and induce vomiting by administering Syrup of Ipecac (follow manufacturer's instructions). Seek medical attention. *NEVER give anything by mouth or attempt to induce vomiting in a person who is unconscious.*

**Toner inhaled**

Remove person to fresh air. Seek medical attention.

**Toner gets in the eyes**

Flush eyes with large quantities of cool water for 15 minutes, keeping the eyelids open with fingers. Seek medical attention.

**Note:** Small amounts of toner on skin or clothing can easily be removed with soap and cold water. Hot water makes toner harder to remove.

## Hazardous Ingredients

### Styrene-Butyl Acrylate Copolymer (91% by weight)

CAS# 25767-47-9

OSHA TWA 15 mg/m<sup>3</sup> for total dust

ACGIH TLV 10 mg/m<sup>3</sup> for total dust

### Carbon Black (5-7% by weight)

CAS# 1333-86-4

OSHA TWA 3.5 mg/m<sup>3</sup>

ACGIH TLV 3.5 mg/m<sup>3</sup>

### Polypropylene (less than 3% by weight)

CAS# 9003-07-0

OSHA TWA 15 mg/m<sup>3</sup> for total dust

ACGIH TLV 10 mg/m<sup>3</sup> for total dust

### Amorphous Fumed Silica (less than 1% by weight)

CAS# 67762-90-7

OSHA PEL 15.0 mg/m<sup>3</sup> for total dust

ACGIH TLV 10.0 mg/m<sup>3</sup> for total dust

**Note:** This product is not regulated under Section 313 of SARA, Title III.

## Physical Data

**Melting Point:** 110°C (230°F)

**Boiling Point:** Not applicable

**Vapor Pressure:** Not applicable

**Vapor Density (Air=1):** Not applicable

**Evaporation Rate (Butyl Acetate=1):** Not applicable

**Specific Gravity (H<sub>2</sub>O=1):** 1.15

**Solubility in water:** Negligible

**Appearance and odor:** Black granules, no odor

## Fire and Explosion Hazard Data

**Flash Point (Method Used):** Not applicable

### Flammable Limits

**Lower Explosive Limit:** Not applicable

**Upper Explosive Limit:** Not applicable

**Extinguishing Media:** Water, CO<sub>2</sub>, Dry Chemical, or Foam

**Special Fire Fighting Procedures:** Do not use methods that may create a dust cloud, such as high pressure water and/or steam

### Unusual Fire and Explosion Hazards:

- Organic components decompose at 200-455°C (392-851°F).
- Material may explosively combust when finely suspended in air.
- Thermal decomposition of organic components may result in release of oxides of carbon and nitrogen.

## Health Hazards Data

**Routes of Entry:** Inhalation, Ingestion, Eyes, Skin.

### 1 Styrene-Butyl Acrylate Copolymer

Subcutaneous implantation of polymeric styrene powder in rats has induced tumors at the site of implantation.

### 2 Carbon black

(Group 2B “Possible Carcinogen”; IARC)

Overexposure to carbon black is associated with causing irritation, conjunctivitis, and corneal hypoplasia of the eyes; minor irritation and eczema of the skin; and irritation and bronchitis. Long-term inhalation exposure may be associated with causing lung cancer.

### 3 Polypropylene

(Group 3 “Not Classifiable”; IARC)

Subcutaneous implantation of polypropylene powder in rats has induced tumors at the site of implantation.

### 4 Amorphous Fumed Silica

(Group 3 “Not Classifiable”; IARC)

Overexposure to amorphous silica has been associated with causing irritation of the lungs and pneumoconiosis. Long-term inhalation exposure may be associated with producing tumors in laboratory animals.

## Reactivity Data

**Stability:** Stable

**Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Thermal decomposition may result in release of oxides of carbon and nitrogen.

**Temperature:** Do not expose to temperatures above 200°C (392°F).

**Incompatibility:** Avoid exposure to strong oxidizers.

## Spill Cleanup and Disposal

### Spill Cleanup

#### *Small Spills*

- 1 Remove sources of ignition.
- 2 Clean up spill with wet cloth.

#### *Large Spills*

- 1 Remove sources of ignition.
- 2 Wear protective gear: respirator, rubber gloves, goggles (see below)
- 3 Clean up spill with scoop, being careful not to generate a lot of dust.

### Waste Disposal

Follow appropriate federal, state and local regulations.

## Safe Handling and Use

**Respiratory Protection:** Not normally required. For large spills, use NIOSH-approved full face-piece respirator with HEPA cartridge during cleanup.

**Protective Gloves and/or Eye Protection:** Not normally required. For large spills, use rubber gloves and chemical worker's goggles during cleanup.

**Ventilation:** Outside of normal ventilation, not normally required.

**Other Protective Equipment and/or Hygienic Practices:** None

## Special Precautions

**Precautions for Handling or Storage:** Protect from high heat. Avoid making dust.

**Other Precautions:** None

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefor. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.